POLYPEPTIDES HAVING A FUNCTIONAL DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND USING SAME

		•
	TABLE OF CONTENTS	
,	TMERODUCETON	Page
1.	INTRODUCTION	-
2.	BACKGROUND OF INVENTION	. 1
3.	SUMMARY OF THE INVENTION	. 6
4.	DESCRIPTION OF THE FIGURES	. 9
5.	DETAILED DESCRIPTION OF THE INVENTION	. 19
	5.1. DISCOVERY OF NOVEL GENES AND POLYPEPTIDES CONTAINING FUNCTIONAL DOMAINS	. 24
	5.1.1. FUNCTIONAL DOMAINS	. 31
	5.1.2. RECOGNITION UNITS	. 32
	5.1.3. SCREENING A SOURCE OF POLYPEPTIDES	. 37
	5.2. SPECIFICITY OF RECOGNITION UNITS	. 40
·	5.2.1. EFFECT OF THE PRESENTATION OF THE RECOGNITION UNIT COMPLEX ON THE SPECIFICITY OF THE RECOGNITION UNIT-FUNCTIONAL DOMAIN INTERACTION	. 42
	5.3. KITS	. 46
	5.4. ASSAYS FOR THE IDENTIFICATION OF POTENTIAL DRUG CANDIDATES AND DETERMINING THE SPECIFICITY THEREOF	. 48
	5.5. USE OF POLYPEPTIDES CONTAINING FUNCTIONAL DOMAINS TO DISCOVER POLYPEPTIDES INVOLVED IN PHARMACOLOGICAL ACTIVITIES	. 57
	5.6. USE OF MORE THAN ONE RECOGNITION UNIT SIMULTANEOUSLY	. 60
	5.7. USE OF RECOGNITION UNITS FROM KNOWN AMINO ACID SEQUENCES	. 61
	5.8. ISOLATION AND EXPRESSION OF NUCLEIC ACIDS ENCODING POLYPEPTIDES COMPRISING A FUNCTIONAL DOMAIN	. 62
	5.8.1. IDENTIFICATION AND PURIFICATION OF THE EXPRESSED GENE PRODUCT	. 71

~	<u> </u>	<u>Page</u>
	IVATIVES AND ANALOGS OF POLYPEPTIDES PRISING A FUNCTIONAL DOMAIN	71
	NTIBODIES TO POLYPEPTIDES COMPRISING A FUNCTIONAL DOMAIN	7 .
EXAMPLES		76
	NTIFICATION OF GENES FROM CDNA EXPRESSION RARIES	76
6.1.1.	NUCLEOTIDE AND CORRESPONDING AMINO ACID SEQUENCES OF GENES IDENTIFIED FROM CDNA EXPRESSION LIBRARIES	83
	OF PEPTIDES RESEMBLING SH3 DOMAIN BINDING UENCES AS RECOGNITION UNITS	85
	ENCY OF PEPTIDE RECOGNITION UNITS AFFECTS CIFICITY OF RECOGNITION UNITS	8.5
6.3.1.	PRECONJUGATION OF PEPTIDE RECOGNITION UNITS WITH STREPTAVIDIN-ALKALINE PHOSPHATASE INCREASES AFFINITY OF THE RECOGNITION UNITS FOR TARGETS	. 85
6.3.2.	PRECONJUGATION OF PEPTIDE RECOGNITION UNITS WITH STREPTAVIDIN-ALKALINE PHOSPHATASE RESULTS IN RECOGNITION OF A VARIETY OF SH3	
	DOMAINS	86
6.3.3.	PRECONJUGATION OF PEPTIDE RECOGNITION UNITS WITH STREPTAVIDIN-ALKALINE PHOSPHATASE RESULTS IN RECOGNITION OF A VARIETY OF EXPRESSED CDNA CLONES	89
6.4. CHAI	RACTERIZATION OF CDNA CLONE-ENCODED PROTEINS .	90
6.4.1.	PRODUCTION OF CDNA CLONE-ENCODED PROTEINS .	90
6.5. MATE	ERIALS USED IN SECTIONS 6.1, 6.2, 6.3.1, .2, 6.3.3, AND 6.4.1	90
6 6 OTU	ED FINCTIONAL DOMAINS AND DECOCNITION INTES	